

Title (en)

ABERRATION CORRECTED OPTICAL SYSTEM FOR NEAR-EYE DISPLAYS

Title (de)

ABERRATIONSKORRIGIERTES OPTISCHES SYSTEM FÜR AUGENNAHE ANZEIGE

Title (fr)

SYSTÈME OPTIQUE À CORRECTION D'ABERRATION POUR AFFICHAGES PROCHES DES YEUX

Publication

EP 3403132 A2 20181121 (EN)

Application

EP 17756848 A 20170224

Priority

- US 201662300692 P 20160226
- US 201715420389 A 20170131
- KR 2017002034 W 20170224

Abstract (en)

[origin: US2017248769A1] An optical system includes, from an image side to an object side, a first lens having a positive refractive power, a second lens having a positive refractive power, and a third lens having a negative refractive power. The first lens, the second lens, and the third lens form an optical path with the object side facing a screen and the image side adapted to provide an image from the screen to a user. In one aspect, the optical system is adapted to correct at least one of a group of aberrations including astigmatism and field curvature; or, lateral color.

IPC 8 full level

G02B 27/01 (2006.01); **G02B 7/02** (2006.01)

CPC (source: EP KR US)

G02B 7/021 (2013.01 - KR); **G02B 9/12** (2013.01 - EP US); **G02B 25/001** (2013.01 - EP KR US); **G02B 27/0025** (2013.01 - US); **G02B 27/0101** (2013.01 - KR); **G02B 27/027** (2013.01 - EP KR US); **G02B 2027/0134** (2013.01 - KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 10422976 B2 20190924; **US 2017248769 A1 20170831**; EP 3403132 A2 20181121; EP 3403132 A4 20190227; KR 102090274 B1 20200317; KR 20180110158 A 20181008; WO 2017146510 A2 20170831; WO 2017146510 A3 20180719

DOCDB simple family (application)

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